

FIG. 1
Prior Art

The diagram illustrates a prior art electrochemical cell system 100. The system includes an air source 142 connected to the cell stack 102 via a pump 144 and a valve 158. The cell stack 102 consists of an anode 110, a separator 108, and a cathode 106. Air enters the anode through inlet 124 and exits through outlet 122. A hydrogen source 140 is connected to the cell stack 102 via a valve 166 and a pump 152. Hydrogen enters the cathode through inlet 130 and exits through outlet 132. The cell stack 102 is connected to an external circuit 177, which includes a resistor 148, a switch 154, and a resistor 146. The circuit also includes a switch 156 and a valve 172. The system is labeled 100.

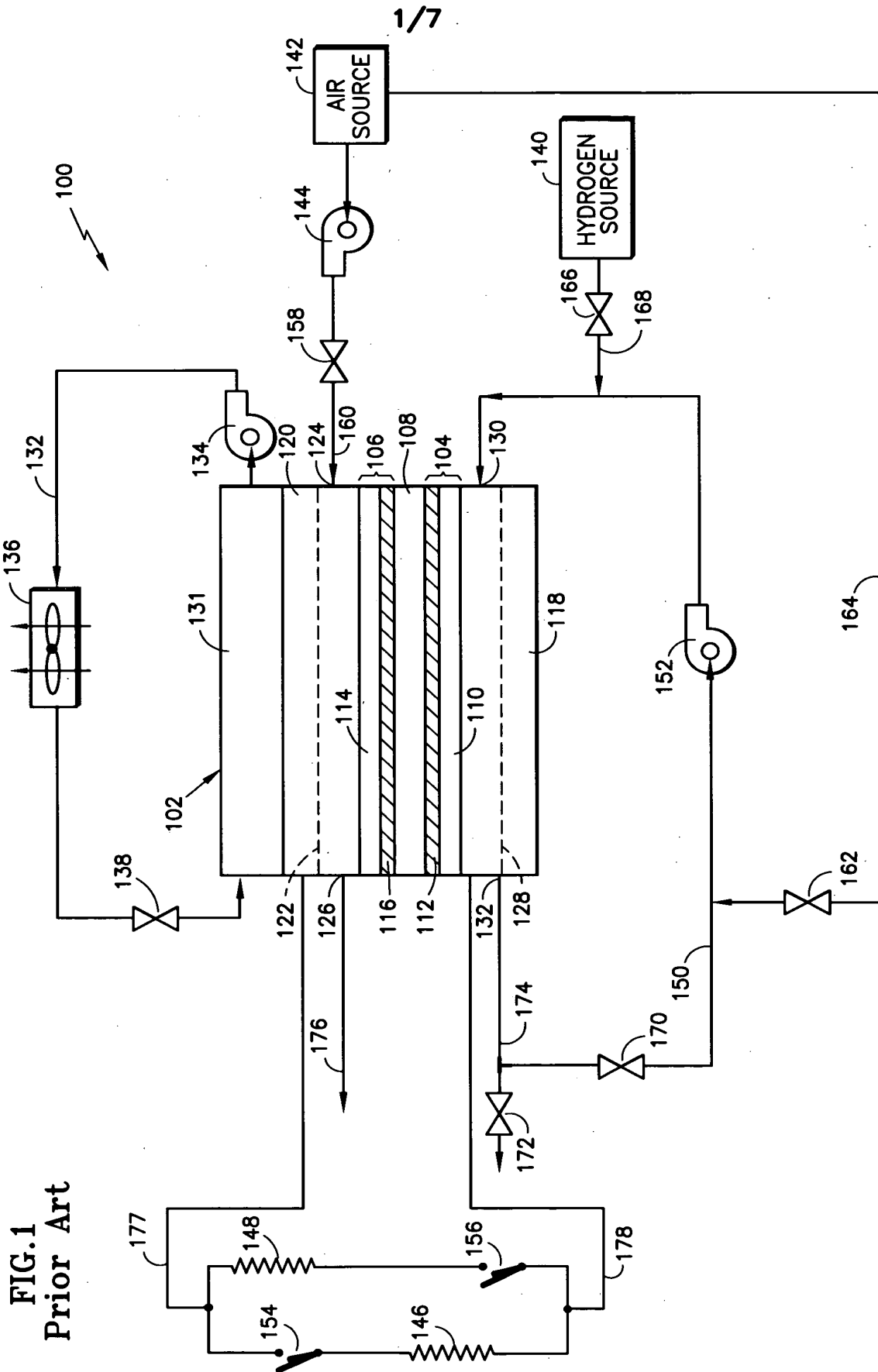




FIG. 2

FIG.3

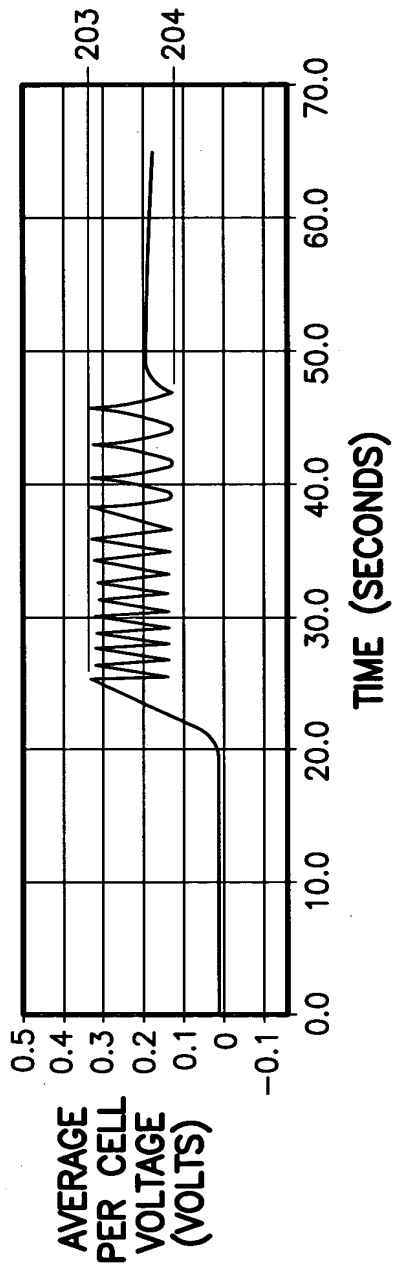


FIG.4

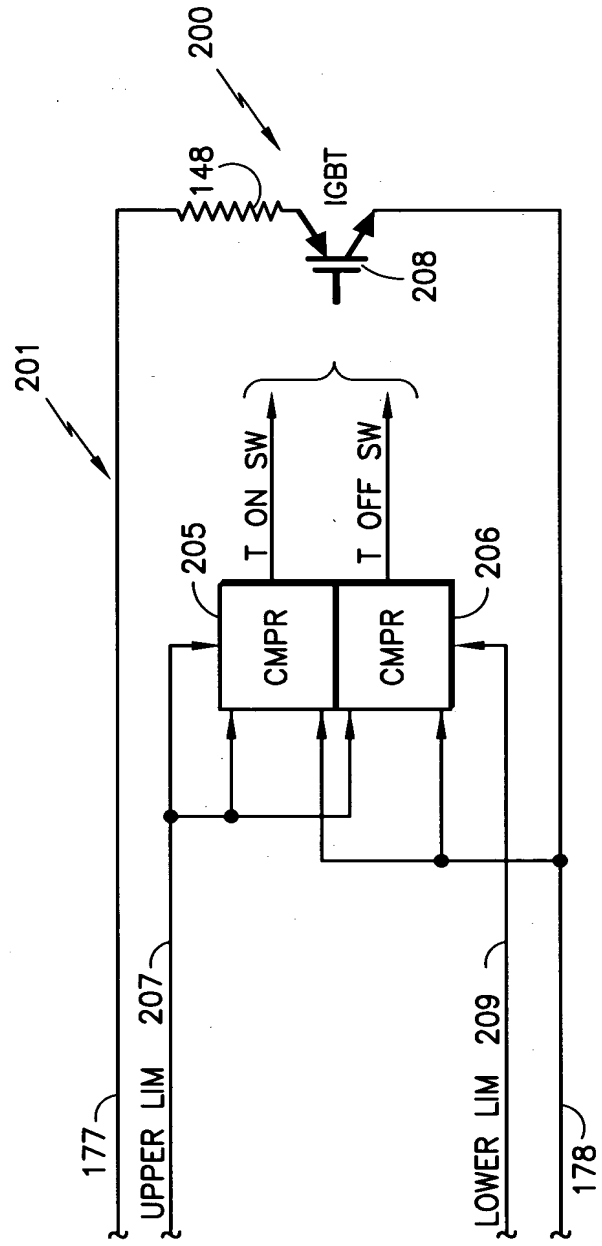
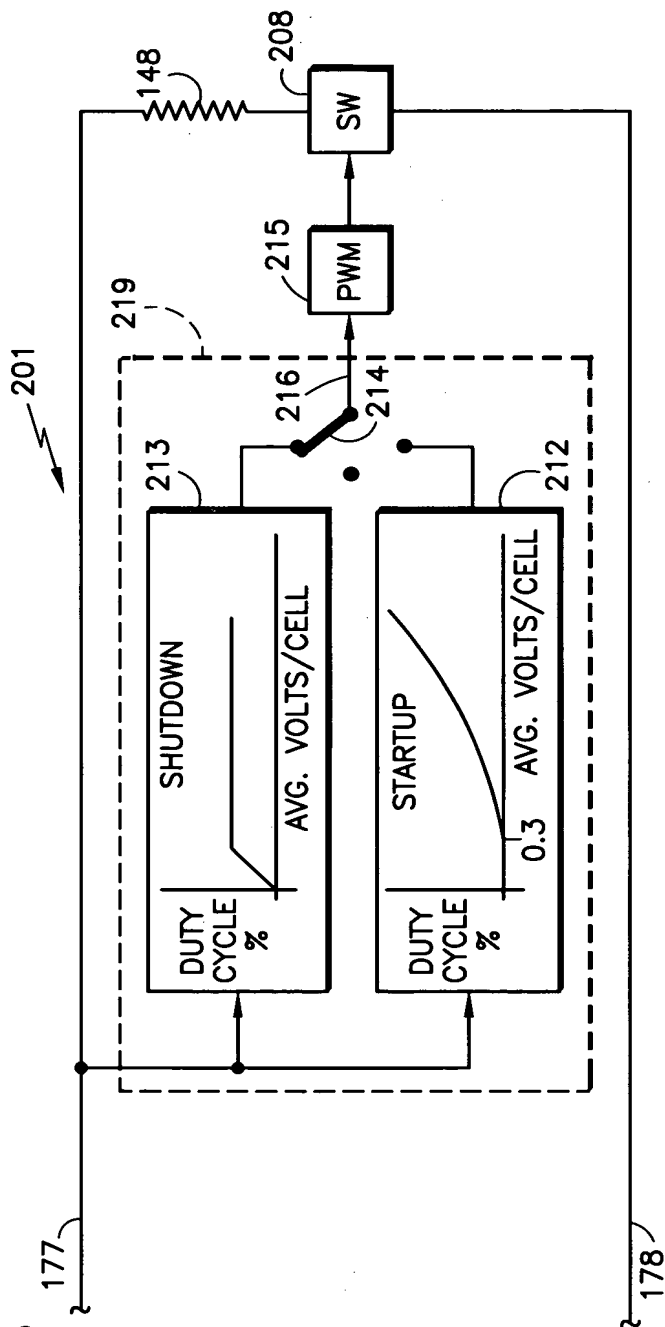


FIG.5



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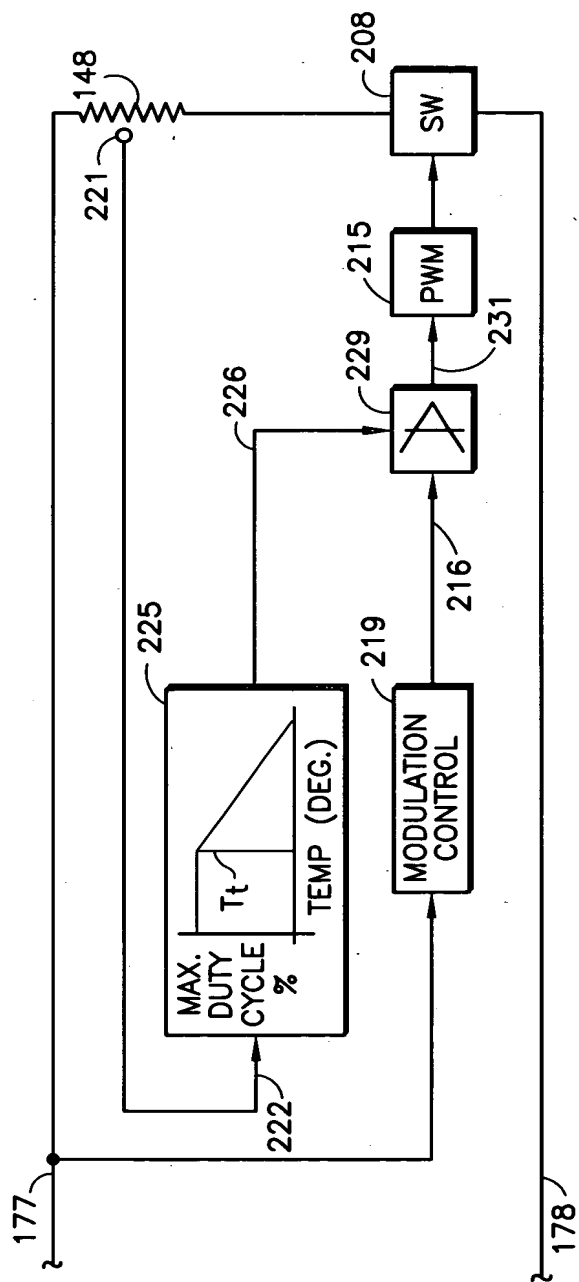


FIG.6

FIG. 8

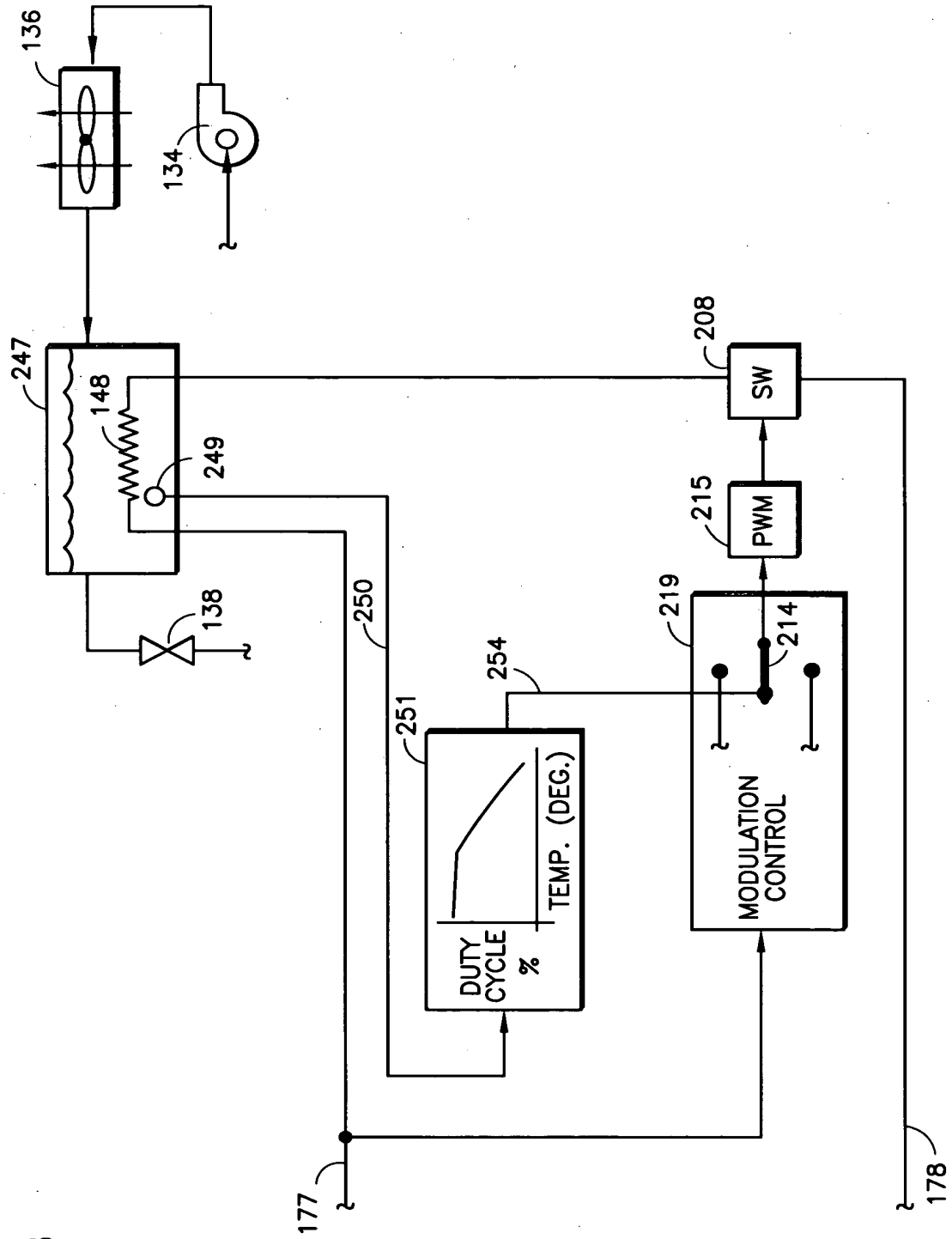


FIG. 9

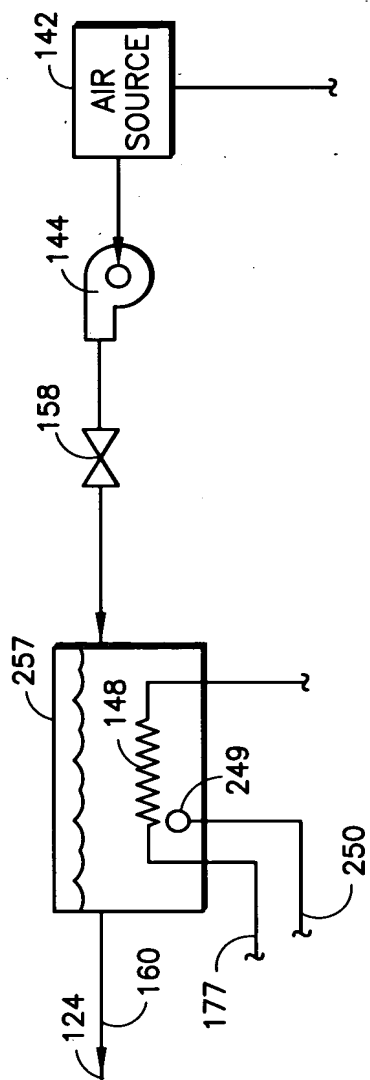


FIG. 10

